

Title (en)

A 4D Repeatability Indicator Based on Shot Illumination For Seismic Acquisition

Title (de)

4D-Wiederholbarkeitsanzeiger auf Basis einer Schussbeleuchtung zur Erfassung seismischer Daten

Title (fr)

Indicateur de répétabilité 4D basé sur un éclairage à tir pour acquisition sismique

Publication

EP 2743735 A2 20140618 (EN)

Application

EP 13197730 A 20131217

Priority

US 201261738066 P 20121217

Abstract (en)

Methods and systems for similarity indicator calculation associated with seismic data acquisition are described. A similarity indicator value can, for example, be based on a normalized partitioned intensity uniformity (PIU) metric. In another aspect, shot imprints are compared by mapping a base (reference) shot imprint onto a current sample of a shot imprint before calculating the similarity indicator value. The similarity indicator value is associated with the shot imprint location used in the calculation and allows re-shooting of only the areas where an insufficient quality of shot data is detected based on a preconfigured threshold value for the similarity indicator.

IPC 8 full level

G01V 1/30 (2006.01)

CPC (source: BR EP US)

G01V 1/308 (2013.01 - BR EP US); **G01V 1/34** (2013.01 - BR US); **G01V 2210/612** (2013.01 - EP US)

Citation (applicant)

- US 7406383 B2 20080729 - HERRMANN PHILIPPE [FR], et al
- R. P. WOODS; J. C. MAZZIOTA; S. R. CHERRY: "MRI-PET Registration with Automated Algorithm", JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY, vol. 17, no. 4, 1993, pages 536 - 546, XP000613886

Cited by

CN109241043A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2743735 A2 20140618; **EP 2743735 A3 20171115**; AU 2013270630 A1 20140703; BR 102013032530 A2 20151208; MX 2013015016 A 20140901; MX 362621 B 20190128; US 2014172308 A1 20140619; US 9733374 B2 20170815

DOCDB simple family (application)

EP 13197730 A 20131217; AU 2013270630 A 20131216; BR 102013032530 A 20131217; MX 2013015016 A 20131217; US 201314102592 A 20131211